

SEQUENCE LISTING

<110> YOUNG, RYLAND  
STRUCK, DOUGLAS  
ROOF, WILLIAM  
BERNHARDT, THOMAS  
WANG, ING-NANG

<120> ANTIBIOTICS BASED UPON BACTERIOPHAGE LYSIS PROTEINS

<130> P01886US1;10020446

<140> 09/626,036  
<141> 2000-07-27

<150> 60/146,455  
<151> 1999-07-30

<160> 2

<170> PatentIn version 3.0

<210> 1  
<211> 91  
<212> PRT  
<213> Bacteriophage phi-X174

<400> 1

Met Val Arg Trp Thr Leu Trp Asp Thr Leu Ala Phe Leu Leu Leu Leu  
1 5 10 15

Ser Leu Leu Leu Pro Ser Leu Leu Ile Met Phe Ile Pro Ser Thr Phe  
20 25 30

Lys Arg Pro Val Ser Ser Trp Lys Ala Leu Asn Leu Arg Lys Thr Leu  
35 40 45

Leu Met Ala Ser Ser Val Arg Leu Lys Pro Leu Asn Cys Ser Arg Leu  
50 55 60

Pro Cys Val Tyr Ala Gln Glu Thr Leu Thr Phe Leu Leu Thr Gln Lys  
65 70 75 80

Lys Thr Cys Val Lys Asn Tyr Val Arg Lys Glu  
85 90

<210> 2  
<211> 419  
<212> PRT  
<213> Escherichia coli

<400> 2

Met Asp Lys Phe Arg Val Gln Gly Pro Thr Glu Leu Gln Gly Glu Val  
1 5 10 15

Thr Ile Ser Gly Ala Lys Asn Ala Ala Leu Pro Ile Leu Phe Ala Ala  
20 25 30

Leu Leu Ala Glu Glu Pro Val Glu Ile Gln Asn Val Pro Lys Leu Lys

35

40

45

Asp Val Asp Thr Ser Met Lys Leu Leu Ser Gln Leu Gly Ala Lys Val  
 50 55 60

Glu Arg Asn Gly Ser Val His Ile Asp Ala Arg Asp Val Asn Val Phe  
 65 70 75 80

Cys Ala Pro Tyr Asp Leu Val Lys Thr Met Arg Ala Ser Ile Trp Ala  
 85 90 95

Leu Gly Pro Leu Val Ala Arg Phe Gly Gln Gly Gln Val Ser Leu Pro  
 100 105 110

Gly Gly Cys Thr Ile Gly Ala Arg Pro Val Asp Leu His Ile Ser Gly  
 115 120 125

Leu Glu Gln Leu Gly Ala Thr Ile Lys Leu Glu Glu Gly Tyr Val Lys  
 130 135 140

Ala Ser Val Asp Gly Arg Leu Lys Gly Ala His Ile Val Met Asp Lys  
 145 150 155 160

Val Ser Val Gly Ala Thr Val Thr Ile Met Cys Ala Ala Thr Leu Ala  
 165 170 175

Glu Gly Thr Thr Ile Ile Glu Asn Ala Ala Arg Glu Pro Glu Ile Val  
 180 185 190

Asp Thr Ala Asn Phe Leu Ile Thr Leu Gly Ala Lys Ile Ser Gly Gln  
 195 200 205

Gly Thr Asp Arg Ile Val Ile Glu Gly Val Glu Arg Leu Gly Gly Gly  
 210 215 220

Val Tyr Arg Val Leu Pro Asp Arg Ile Glu Thr Gly Thr Phe Leu Val  
 225 230 235 240

Ala Ala Ala Ile Ser Arg Gly Lys Ile Ile Cys Arg Asn Ala Gln Pro  
 245 250 255

Asp Thr Leu Asp Ala Val Leu Ala Lys Leu Arg Asp Ala Gly Ala Asp  
 260 265 270

Ile Glu Val Gly Glu Asp Trp Ile Ser Leu Asp Met His Gly Lys Arg  
 275 280 285

Pro Lys Ala Val Asn Val Arg Thr Ala Pro His Pro Ala Phe Pro Thr  
 290 295 300

Asp Met Gln Ala Gln Phe Thr Leu Leu Asn Leu Val Ala Glu Gly Thr  
 305 310 315 320

Gly Phe Ile Thr Glu Thr Val Phe Glu Asn Arg Phe Met His Val Pro  
 325 330 335

Glu Leu Ser Arg Met Gly Ala His Ala Glu Ile Glu Ser Asn Thr Val  
 340 345 350

Ile Cys His Gly Val Glu Lys Leu Ser Gly Ala Gln Val Met Ala Thr  
 355 360 365

Asp Leu Arg Ala Ser Ala Ser Leu Val Leu Ala Gly Cys Ile Ala Glu  
370 375 380

Gly Thr Thr Val Val Asp Arg Ile Tyr His Ile Asp Arg Gly Tyr Glu  
385 390 395 400

Arg Ile Glu Asp Lys Leu Arg Ala Leu Gly Ala Asn Ile Glu Arg Val  
405 410 415

Lys Gly Glu